

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P647165

Luminaire Tested: **GALN-SA9C-835-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647165
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-835-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41281.3 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

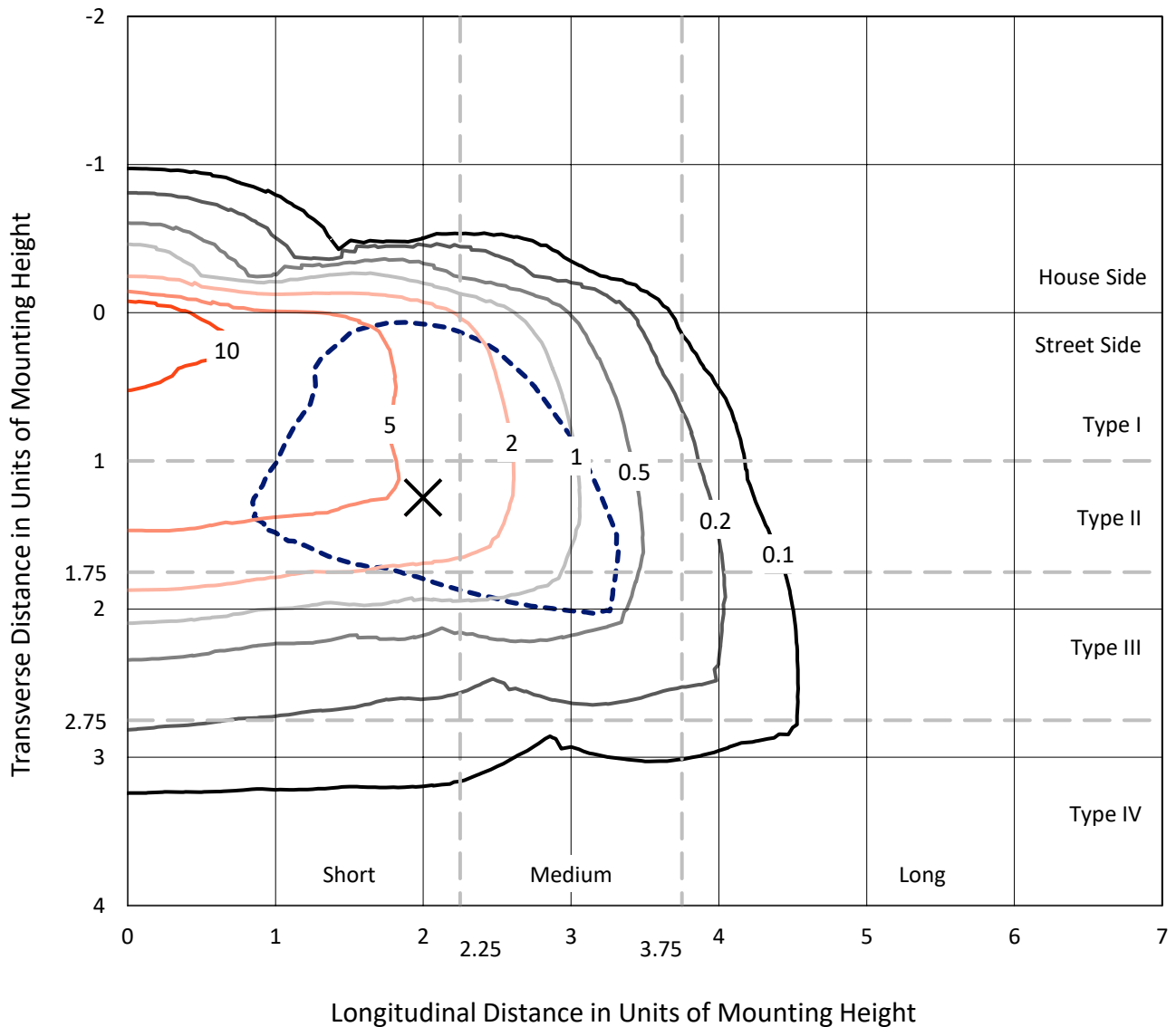
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

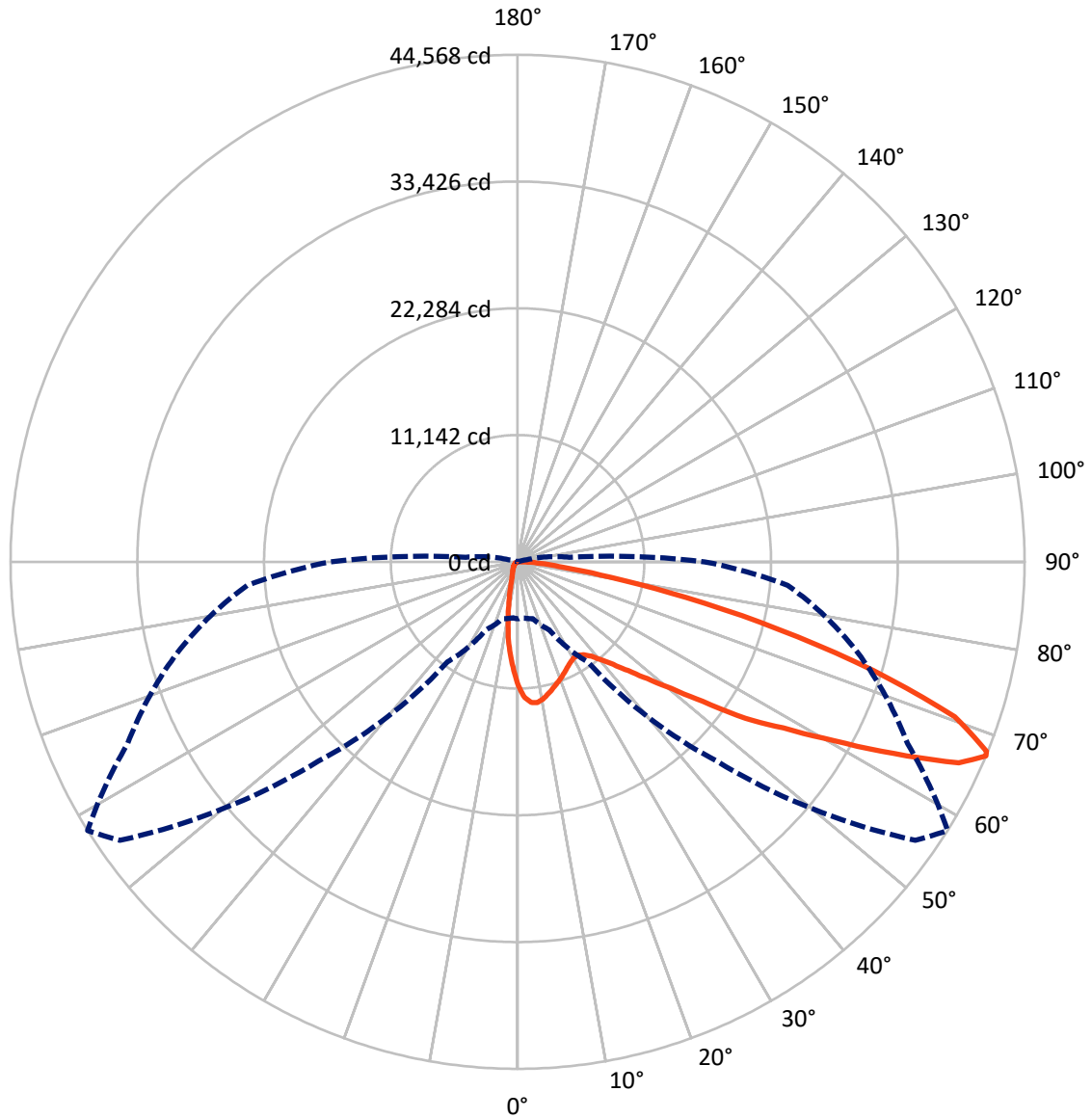
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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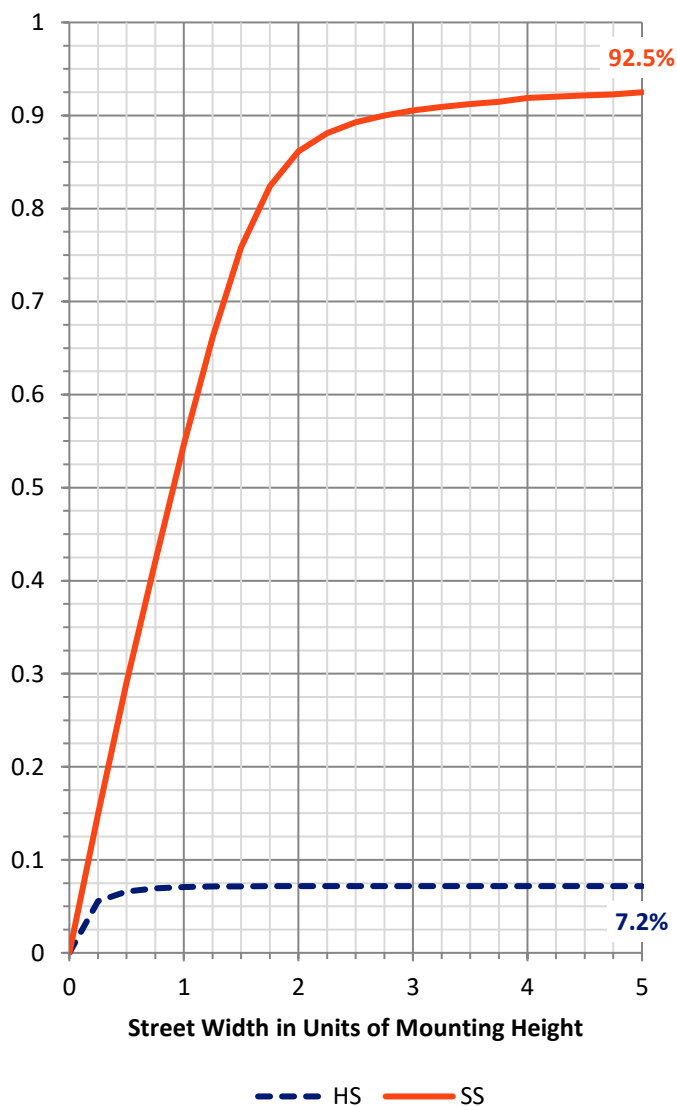
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2979.1	0.0	2979.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	38302.2	0.0	38302.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	41281.3	0.0	41281.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	888.0	2.2
10°-20°	1917.9	4.6
20°-30°	2598.9	6.3
30°-40°	3604.5	8.7
40°-50°	5748.8	13.9
50°-60°	9937.3	24.1
60°-70°	11351.5	27.5
70°-80°	4732.5	11.5
80°-90°	501.8	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	41281.3	100.0
0°-180°	41281.3	100.0

Coefficient of Utilization

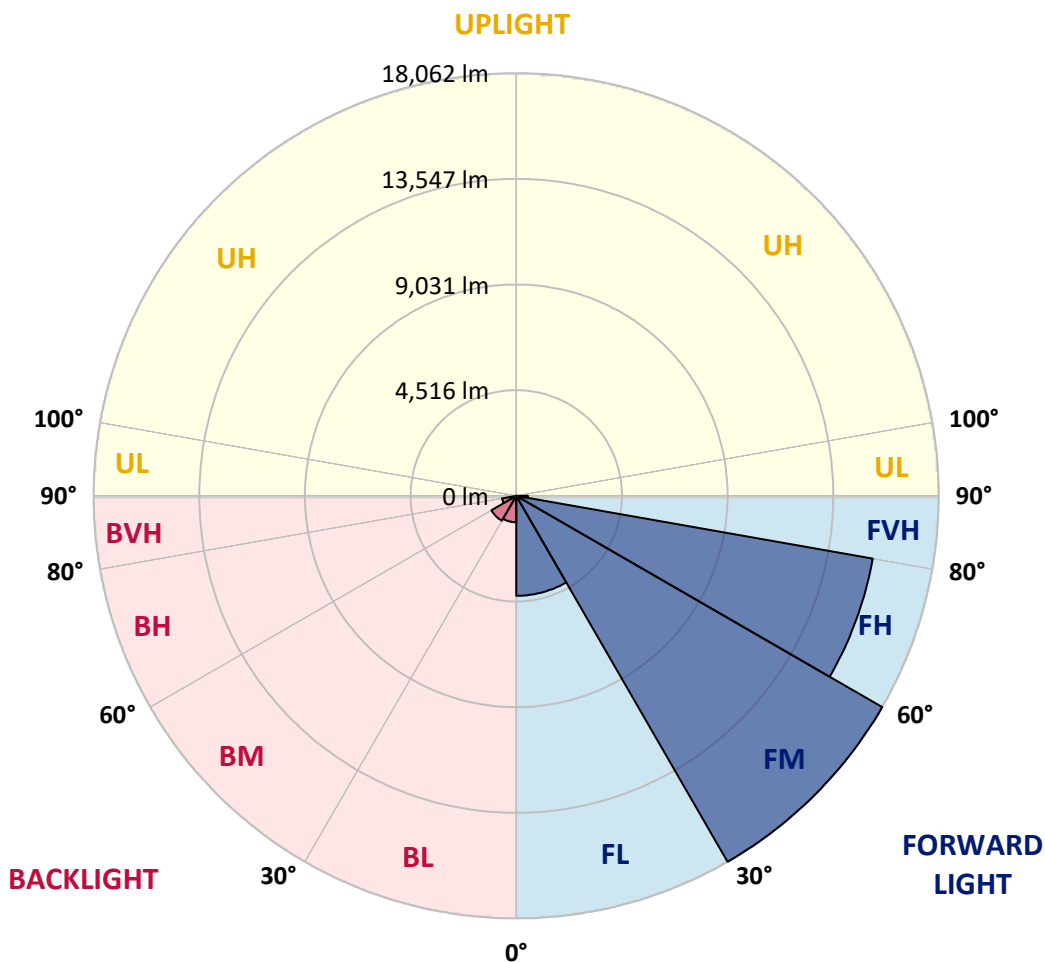


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4273.6	10.4			
FM (30°-60°)	18062.3	43.8			
FH (60°-80°)	15468.2	37.5			G5
FVH (80°-90°)	498.1	1.2			G3/500
BL (0°-30°)	1131.2	2.7	B3/2500		
BM (30°-60°)	1228.4	3.0	B2/2500		
BH (60°-80°)	615.9	1.5	B2/1000		G2/1000
BVH (80°-90°)	3.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	10943.3	10943.3	10943.3	10943.3	10943.3	10943.3	10943.3	10943.3	10943.3	10943.3	10943.3
2.5°	12700.5	12719.8	12648.1	12590.2	12441.2	12281.2	12068.8	11955.7	11762.6	11428.8	11059.2
5°	12998.4	13023.2	13012.2	12998.4	12940.5	12786.0	12515.7	12416.4	12132.3	11588.8	10921.2
7.5°	12336.4	12427.4	12438.4	12546.0	12648.1	12661.9	12559.9	12485.3	12223.3	11586.1	10675.7
10°	11459.1	11519.8	11608.1	11732.2	11977.8	12181.9	12281.2	12270.2	12118.5	11500.5	10388.8
12.5°	10573.6	10606.8	10741.9	10954.3	11255.0	11602.6	11867.5	11919.8	11922.6	11398.4	10148.9
15°	9812.2	9798.5	9903.3	10148.9	10570.9	11006.7	11481.2	11564.0	11696.4	11299.2	9925.4
17.5°	9161.3	9233.0	9249.5	9519.9	9908.9	10474.3	11078.4	11224.7	11489.5	11213.7	9740.5
20°	8758.5	8797.2	8833.0	8984.7	9335.1	9930.9	10700.6	10901.9	11296.4	11136.4	9533.7
22.5°	8639.9	8664.7	8634.4	8681.3	8929.6	9459.2	10289.5	10557.1	11111.6	11064.7	9365.4
25°	8730.9	8755.7	8684.0	8628.8	8714.4	9075.8	9892.3	10217.8	10962.6	11050.9	9238.5
27.5°	8951.6	8998.5	8899.2	8799.9	8750.3	8868.9	9580.6	9958.5	10860.5	11117.1	9180.6
30°	9296.4	9324.0	9249.5	9128.1	9015.1	8896.4	9417.8	9779.2	10833.0	11271.6	9175.0
32.5°	9671.6	9729.6	9688.1	9608.1	9461.9	9180.6	9464.7	9784.7	10899.1	11495.0	9244.0
35°	10135.1	10201.2	10239.8	10223.3	10035.7	9685.4	9762.6	10033.0	11075.7	11906.1	9431.6
37.5°	10590.2	10648.1	10866.1	10940.5	10775.0	10444.0	10341.9	10521.2	11464.7	12444.0	9770.9
40°	11111.6	11188.8	11495.0	11779.1	11699.1	11351.5	11164.0	11312.9	12060.5	13255.0	10413.7
42.5°	11610.9	11748.8	12215.0	12717.1	12791.6	12402.6	12278.5	12328.1	12943.3	14421.8	11310.2
45°	12319.8	12449.5	13050.9	13732.3	14082.6	13779.2	13652.2	13643.9	14154.3	16063.2	12764.0
47.5°	13343.3	13459.1	14168.1	14841.2	15464.6	15506.0	15266.0	15348.8	15677.0	17983.2	14546.0
50°	14598.4	14871.5	15337.7	16038.4	16871.5	17544.6	17619.1	17508.7	17790.1	20206.6	16686.7
52.5°	16421.9	16526.7	16954.2	17530.8	18507.3	19649.4	20534.9	20383.1	20294.9	22325.2	18849.4
55°	17781.9	17922.5	18587.3	19379.0	20810.7	22316.9	24236.9	24289.4	23174.8	24361.1	20965.2
57.5°	17370.8	17585.9	18592.9	20184.6	23332.1	26085.2	27514.2	27550.0	25839.6	26338.9	23354.1
60°	15260.5	15362.5	16805.3	18929.4	23547.2	30167.9	32162.4	31872.6	28551.3	28551.3	25464.5
62.5°	10821.9	10981.9	12151.5	15277.0	21265.9	31585.8	37729.2	37130.6	32286.5	30667.1	26722.4
65°	6915.8	6761.3	7536.5	9644.0	15842.5	29492.0	42575.9	42611.8	35800.9	31514.0	26035.5
67°	5009.6	4948.9	5172.3	6593.0	10741.9	24791.4	42678.0	44567.7	37820.2	30978.9	23839.7
67.5°	4582.0	4628.9	4791.6	5947.5	9759.9	22559.7	42214.6	44451.8	38275.3	30656.2	23045.2
70°	3473.1	3393.1	3569.6	4206.8	5851.0	14231.5	36314.0	40769.1	37709.8	27453.4	18413.6
72.5°	2554.5	2546.2	2791.7	3440.0	4504.8	7580.6	27260.3	32689.2	30807.8	20904.5	11594.4
75°	1724.1	1801.4	2193.1	2874.5	4082.7	4915.8	18584.6	23715.5	21387.3	11870.2	4739.3
77.5°	982.0	987.6	1412.4	2308.9	3666.2	3955.8	11012.3	15108.8	11321.2	3947.5	1406.9
80°	424.9	466.2	700.7	1677.2	3040.0	3503.4	6314.4	8303.3	4579.2	835.9	455.2
82.5°	157.2	184.8	309.0	1031.7	2217.9	2885.5	3815.1	3964.1	1553.1	295.2	284.2
85°	0.0	5.5	113.1	482.7	1155.9	1288.3	2548.9	2350.3	686.9	140.7	184.8
87.5°	0.0	0.0	0.0	49.6	151.7	480.0	791.7	882.8	165.5	49.6	44.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10943.3	10943.3	10943.3	10943.3	10943.3	10943.3	10943.3	10943.3	10943.3	10943.3	10943.3
2.5°	10860.5	10681.2	10231.6	9781.9	9448.1	9169.6	8750.3	8521.2	8399.9	8220.6	8231.6
5°	10587.4	10223.3	9431.6	8612.3	7950.3	7304.8	6532.3	6220.6	5958.6	5809.5	5710.3
7.5°	10181.9	9644.0	8471.6	7379.2	6361.3	5233.0	4386.1	3820.6	3440.0	3299.2	3164.1
10°	9737.8	9023.3	7497.9	5983.4	4571.0	3406.8	2689.6	2171.0	1986.2	1815.2	1831.7
12.5°	9326.8	8457.8	6604.1	4722.7	3202.7	2165.5	1688.2	1475.9	1415.1	1395.9	1395.9
15°	8990.2	7917.1	5644.1	3550.3	2195.8	1555.8	1351.7	1293.8	1271.7	1266.2	1266.2
17.5°	8631.6	7404.0	4777.9	2623.4	1597.2	1302.1	1233.1	1194.5	1186.2	1180.7	1180.7
20°	8311.6	6888.2	3955.8	1953.1	1291.0	1172.4	1128.2	1103.4	1095.2	1089.6	1092.4
22.5°	8008.1	6430.2	3183.4	1475.9	1136.5	1067.5	1023.5	998.6	982.0	968.3	971.0
25°	7737.8	5988.9	2559.9	1208.2	1023.5	962.8	918.6	882.8	846.9	830.4	827.6
27.5°	7547.5	5602.7	1994.5	1034.5	921.4	855.2	800.0	755.8	708.9	684.1	678.6
30°	7390.3	5210.9	1577.9	913.1	819.3	755.8	686.9	623.4	573.8	549.0	537.9
32.5°	7288.2	4838.5	1244.1	813.8	733.7	656.5	579.3	515.8	460.7	435.8	430.3
35°	7271.6	4526.8	1017.9	731.0	656.5	573.8	493.8	424.9	378.0	353.1	347.6
37.5°	7390.3	4286.8	852.4	664.8	593.1	502.1	413.8	350.3	309.0	289.6	286.9
40°	7707.5	4135.1	739.3	609.6	535.2	435.8	353.1	297.9	256.5	237.2	237.2
42.5°	8311.6	4140.7	664.8	557.3	477.2	372.4	300.7	248.3	212.4	195.8	190.3
45°	9255.1	4328.2	601.3	504.8	422.0	322.8	256.5	204.1	168.3	154.5	154.5
47.5°	10518.5	4700.7	546.2	452.4	372.4	275.9	217.9	165.5	135.1	121.4	121.4
50°	12170.9	5299.3	499.3	408.3	331.1	237.2	176.6	135.1	104.8	93.8	91.1
52.5°	13897.8	6038.6	444.1	369.7	284.2	201.4	143.4	104.8	80.0	71.7	69.0
55°	15803.9	6761.3	391.7	331.1	231.7	168.3	113.1	82.8	57.9	49.6	49.6
57.5°	17726.7	7470.2	328.2	275.9	182.0	124.1	88.2	60.7	38.6	30.4	30.4
60°	19354.2	7699.2	278.6	223.5	138.0	88.2	63.4	38.6	22.1	13.8	13.8
62.5°	19577.7	6926.8	234.5	171.0	99.3	60.7	33.1	22.1	8.3	5.5	5.5
65°	18363.9	5627.5	195.8	129.7	66.2	30.4	13.8	8.3	2.7	0.0	0.0
67°	16455.0	4562.7	160.0	96.5	46.9	19.3	8.3	2.7	0.0	0.0	0.0
67.5°	15966.7	4350.3	154.5	91.1	41.3	16.5	5.5	2.7	0.0	0.0	0.0
70°	12529.5	3257.9	110.3	55.2	24.8	11.0	0.0	0.0	0.0	0.0	0.0
72.5°	7787.5	1842.7	80.0	33.1	16.5	5.5	0.0	0.0	0.0	0.0	0.0
75°	2943.4	645.5	55.2	22.1	11.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	915.9	245.5	33.1	16.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	309.0	93.8	22.1	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	190.3	38.6	13.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	118.6	16.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.1	5.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)